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TI Bearing alloys for turbochargers
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AB The bearing alloys contain **Cu** 55-65, **Zn** 25-35, **Al** 2-6%, and 1-3 elements selected from **Ni** 0.2-3, **Fe** 0.5-4, **Ti** 1-2.5, **Pb** 2-10, **Mn** 2-4, **Si** 0.5-2, and **Zr** 0.5-2%. Alloy microstructure has 3-15 area% of dispersed **intermetallic** compd. particles having max. length 5-30.mu. and Vickers hardness .gtoreq.400. The alloys are esp. useful as floating bearings of turbochargers. Thus, alloy contg. **Cu** 55-65, **Zn** 25-35, **Al** 2-6, **Fe** 2-4, and **Ti** 1.5-2.5% was melted at 1150.degree., cast from 1000.degree., and then cooled. Resulting turbocharger bearing showed a high resistance to abrasion and seizure.